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138475 Retention of GlassCarbomer sealant after 6 months of clinical trial

Saturday, July 17, 2010: 5 p.m. - 6:15 p.m.

Location: Exhibit Hall (CCIB)

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Objectives: GlassCarbomer represents a new generation of dental glass material developed from glass-ionomer cement material. The aim of this study was to investigate retention of glasscarbomer fissure sealant after six months of clinical trial. Methods: Forty-four teeth with well-delineated fissure morphology divided in two groups were sealed with glasscarbomer (GlassCarbomer Sealant, GlassCarbomer Products, Netherlands) and Helioseal F (Ivoclar Vivadent, Liechtenstein) using split mouth design. Materials were placed and set according manufacturers instruction using polymerization unit Bluephase 16i (Ivoclar Vivadent, Liechtenstein). Teeth in group A were sealed with Helioseal F and in group B with GlassCarbomer material. Results: Results showed that retention rate in-group A and B were 100% after six months of clinical service. There was no secondary caries lesions in either group. Conclusion: GlassCarbomer material showed comparable retention rate and can also be recommended for every day practice. However, a long-term follow up is required to get reliable results.

See more of: [Clinical Research: Pit and Fissure Sealants](#)

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